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* * * * * Welcome to STN International * * * * *

| | | | |
|--------------|----|--------|--|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | JAN 17 | Pre-1988 INPI data added to MARPAT |
| NEWS | 4 | FEB 21 | STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results |
| NEWS | 5 | FEB 22 | The IPC thesaurus added to additional patent databases on STN |
| NEWS | 6 | FEB 22 | Updates in EPFULL; IPC 8 enhancements added |
| NEWS | 7 | FEB 27 | New STN AnaVist pricing effective March 1, 2006 |
| NEWS | 8 | MAR 03 | Updates in PATDPA; addition of IPC 8 data without attributes |
| NEWS | 9 | MAR 22 | EMBASE is now updated on a daily basis |
| NEWS | 10 | APR 03 | New IPC 8 fields and IPC thesaurus added to PATDPAFULL |
| NEWS | 11 | APR 03 | Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL |
| NEWS | 12 | APR 04 | STN AnaVist \$500 visualization usage credit offered |
| NEWS | 13 | APR 12 | LINSPEC, learning database for INSPEC, reloaded and enhanced |
| NEWS | 14 | APR 12 | Improved structure highlighting in FQHIT and QHIT display in MARPAT |
| NEWS | 15 | APR 12 | Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected |
| NEWS | 16 | MAY 10 | CA/CAPlus enhanced with 1900-1906 U.S. patent records |
| NEWS | 17 | MAY 11 | KOREAPAT updates resume |
| NEWS | 18 | MAY 19 | Derwent World Patents Index to be reloaded and enhanced |
| NEWS | 19 | MAY 30 | IPC 8 Rolled-up Core codes added to CA/CAPlus and USPATFULL/USPAT2 |
| NEWS | 20 | MAY 30 | The F-Term thesaurus is now available in CA/CAPlus |
| NEWS | 21 | JUN 02 | The first reclassification of IPC codes now complete in INPADOC |
| NEWS EXPRESS | | | FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/ |
| NEWS HOURS | | | STN Operating Hours Plus Help Desk Availability |
| NEWS LOGIN | | | Welcome Banner and News Items |
| NEWS IPC8 | | | For general information regarding STN implementation of IPC 8 |
| NEWS X25 | | | X.25 communication option no longer available after June 2006 |

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 00:41:25 ON 12 JUN 2006

=> file biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'BIOSIS' ENTERED AT 00:41:36 ON 12 JUN 2006

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FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT

FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 7 June 2006 (20060607/ED)

=> s azacytidine

L1 2412 AZACYTIDINE

=> s (plasma or sera or serum)

551578 PLASMA

2189 PLASMAS

552064 PLASMA

(PLASMA OR PLASMAS)

85180 SERA

12 SERAS

85185 SERA

(SERA OR SERAS)

585644 SERUM

637 SERUMS

85180 SERA

12 SERAS

632357 SERUM

(SERUM OR SERUMS OR SERA OR SERAS)

L2 1131767 (PLASMA OR SERA OR SERUM)

=> s l1 (p) l2

L3 88 L1 (P) L2

=> s l3 and acetonitrile

14699 ACETONITRILE

78 ACETONITRILES

14760 ACETONITRILE

(ACETONITRILE OR ACETONITRILES)

L4 2 L3 AND ACETONITRILE

=> d l4 1-2 kwic

L4 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Quantification of 5-azacytidine in plasma by electrospray tandem mass spectrometry coupled with high-performance liquid chromatography.

AB 5-Azacytidine (5AC), a nucleoside analogue and hypomethylating agent, has anticancer properties and has been utilized in the treatment of various malignancies... Blood samples were collected in a heparinized tube and immediately processed for storage. To increase the stability of 5AC in plasma, 25 ng/mL tetrahydrouridine was added to the plasma and snap frozen. Plasma samples were extracted using acetonitrile then cleaned up by Oasis MCX ion exchange solid-phase extraction cartridges. 5AC was separated on an YMC Jsphr M80(TM) C18. . . 242.0 fwardw 126.0 for 5-methyl-2'-deoxycytidine, the internal standard. The lower limit of quantitation of 5AC was 5 ng/mL in human plasma, and linearity was observed from

5 to 500 ng/mL fitted by linear regression with 1/x weight. This method is 50. . . .

IT
and lymphatics; plasma: blood and lymphatics
IT Chemicals & Biochemicals
5-azacytidine: antineoplastic-drug, pharmacodynamics, pharmacokinetics, quantification, subcutaneous administration; 5-azacytosine;
5-azauracil; 5-methyl-2'-deoxycytidine; **acetonitrile**;
ammonium acetate; formic acid; methanol; tetrahydrouridine
RN 320-67-2 (5-azacytidine)
931-86-2 (5-azacytosine)
71-33-0 (5-azauracil)
838-07-3 (5-methyl-2'-deoxycytidine)
75-05-8 (**acetonitrile**)
631-61-8 (ammonium acetate)
64-18-6 (formic acid)
67-56-1 (methanol)
18771-50-1 (tetrahydrouridine)

L4 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AB. . . . A sensitive and specific reverse phase HPLC [high performance liquid chromatography] method which allows measurement of the new antitumor agent 5,6-dihydro-5-**azacytidine** (DHAC) in biological fluids at concentrations as low as 50 ng/ml (2×10^{-7} M) was developed. After addition of 5'-chloro-5'-deoxy-5,6-dihydro-5-**azacytidine** as an internal standard, sequential ultrafiltration, boronate gel affinity chromatography and cation exchange chromatography are employed to isolate DHAC from **plasma** or urine. DHAC is then reacted with N,N-dimethylformamide diethylacetal to form a dimethylaminomethylene derivative with enhanced UV detectability ($\lambda_{max} = . . .$). Separation is then accomplished on a fully loaded and end-capped ODS [octadecylsilyl] column with 0.050 M formic acid in 20% **acetonitrile**/water. This assay was used to determine the **plasma** pharmacokinetics of DHAC in rats given a single i.v. bolus dose of 50 mg/gk. Analysis of the drug in human **plasma** indicates that this method is suitable for determining DHAC disposition and pharmacokinetics in human subjects.

=> s l3 and (centrifug?)
56321 CENTRIFUG?
L5 0 L3 AND (CENTRIFUG?)

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 10.58 | 10.79 |

STN INTERNATIONAL LOGOFF AT 00:45:24 ON 12 JUN 2006